Windows PowerShell Get-Help on Cmdlet 'New-AzRedisCache'

PS:\>Get-HELP New-AzRedisCache -Full

NAME

New-AzRedisCache

SYNOPSIS

Creates a Redis Cache.

SYNTAX

New-AzRedisCache [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-EnableNonSslPort <System.Nullable`1[System.Boolean]>] [-IdentityType <System.String>] -Location <System.String> [-MinimumTlsVersion <System.String>] -Name <System.String> [-RedisConfiguration <System.Collections.Hashtable>] [-RedisVersion <System.String>] -ResourceGroupName <System.String> [-ShardCount <System.Nullable`1[System.Int32]>] [-Size <System.String>] [-Sku {Basic | Standard | Premium}] [-StaticIP <System.String>] [-SubnetId <System.String>] [-Tag <System.Collections.Hashtable>] [-TenantSettings <System.Collections.Hashtable>] [-UpdateChannel <System.String>] [-UserAssignedIdentity <System.String[]>] [-Zone <System.String[]>] [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The New-AzRedisCache cmdlet creates an Azure Redis Cache.

PARAMETERS

-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>

The credentials, account, tenant, and subscription used for communication with azure.

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-EnableNonSslPort <System.Nullable`1[System.Boolean]>

Indicates whether the non-SSL port is enabled. The default value is $False (the non-SSL port is disabled).

Required? false
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-IdentityType <System.String>

Specifies the type of identity used for the Azure Cache for Redis. Valid values: "SystemAssigned" or "UserAssigned" or "SystemAssignedUserAssigned" or "None"

Required? false
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-Location <System.String>

Specifies the location in which to create a Redis Cache. Valid values are: - North Central US

- South Central US

- Central US

- West Europe

- North Europe

- West US

- East US

- East US 2

- Japan East

- Japan West

- Brazil South

- Southeast Asia

- East Asia

- Australia East

- Australia Southeast

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-MinimumTlsVersion <System.String>

Specify the TLS version required by clients to connect to cache.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Name <System.String>

Specifies the name of the Redis Cache to create.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RedisConfiguration <System.Collections.Hashtable>

Specifies Redis configuration settings. The acceptable values for this parameter are: - rdb-backup-enabled. Specifies that Redis data persistence is enabled.

Premium tier only. - rdb-storage-connection-string. Specifies the connection string to the Storage account for Redis data persistence. Premium tier only. -

rdb-backup-frequency. Specifies the backup frequency for Redis data persistence. Premium tier only. - maxmemory-reserved. Configures the memory reserved for

non-cache processes. Standard and Premium tiers. - maxmemory-policy. Configures the eviction policy for the cache. All pricing tiers. - notify-keyspace-events.

Configures keyspace notifications. Standard and premium tiers. - hash-max-ziplist-entries. Configures memory

optimization for small aggregate data types. Standard

and Premium tiers. - hash-max-ziplist-value. Configures memory optimization for small aggregate data types. Standard and Premium tiers. - set-max-intset-entries.

Configures memory optimization for small aggregate data types. Standard and Premium tiers. - zset-max-ziplist-entries. Configures memory optimization for small

aggregate data types. Standard and Premium tiers. - zset-max-ziplist-value. Configures memory optimization for small aggregate data types. Standard and Premium

tiers. - databases. Configures the number of databases. This property can be configured only at cache creation. Standard and Premium tiers. For more information,

see Manage Azure Redis Cache with Azure PowerShellhttp://go.microsoft.com/fwlink/?LinkId=800051 (http://go.microsoft.com/fwlink/?LinkId=800051). -

preferred-data-archive-auth-method Preferred auth method to communicate to storage account used for data archive, specify SAS or ManagedIdentity, default value is

SAS - preferred-data-persistence-auth-method Preferred auth method to communicate to storage account used for data persistence, specify SAS or ManagedIdentity,

default value is SAS

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RedisVersion <System.String>

Redis version. This should be in the form 'major[.minor]' (only 'major' is required) or the value 'latest' which refers to the latest stable Redis version that is

available. Supported versions: 4.0, 6.0 (latest). Default value is 'latest'.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ResourceGroupName <System.String>

Specifies the name of the resource group in which to create the Redis Cache.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ShardCount <System.Nullable`1[System.Int32]>

Specifies the number of shards to create on a Premium cluster cache. The acceptable values for this parameter are: -1

- 2

- 3

- 4

- 5

- 6

- 7

- 8

- 9

- 10

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Size <System.String>

Specifies the size of the Redis Cache. Valid values are: - P1

- P2

- P3

- P4

- P5

- C0

- C1

- C2

- C3

- C4

- C5

- C6

- 250MB

- 1GB

- 2.5GB

- 6GB

- 13GB

- 26GB

- 53GB

The default value is 1GB or C1.

Required? false
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-Sku <System.String>

Specifies the SKU of the Redis Cache to create. Valid values are: - Basic

- Standard

- Premium

The default value is Standard.

Required? false
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-StaticIP <System.String>

Specifies a unique IP address in the subnet for the Redis Cache. If you do not specify a value for this parameter, this cmdlet chooses an IP address from the

subnet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SubnetId <System.String>

The full resource ID of a subnet in a virtual network to deploy the Azure Cache for Redis in. Example format:

/subscriptions/{subid}/resourceGroups/{resourceGroupName}/Microsoft.{Network|ClassicNetwork}/VirtualNetworks/{vnetName}/subnets/{subnetName}

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Tag <System.Collections.Hashtable>

A hash table which represents tags.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TenantSettings <System.Collections.Hashtable>

This parameter has been deprecated.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-UpdateChannel <System.String>

Optional: Specifies the update channel for the monthly Redis updates your Redis Cache will receive. Caches using 'Preview' update channel get latest Redis updates

at least 4 weeks ahead of 'Stable' channel caches. Default value is 'Stable'. Possible values include: 'Stable', 'Preview'

Required? false

Position? named

Default value Stable

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-UserAssignedIdentity <System.String[]>

Specifies one or more comma seperated user identities to be associated with the Azure Cache for Redis. The user identity references will be ARM resource ids in

the form: '/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.ManagedIdentity/identities/{identityName}'

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Zone <System.String[]>

List of Azure regions with Availability zones (https://learn.microsoft.com/en-us/azure/availability-zones/az-region#azure-services-supporting-availability-zones).

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-WhatIf <System.Management.Automation.SwitchParameter>

Shows what would happen if the cmdlet runs. The cmdlet is not run.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

ErrorAction, ErrorVariable, WarningAction, WarningVariable,

OutBuffer, PipelineVariable, and OutVariable. For more information, see

about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

System.String

System.Collections.Hashtable

System.Nullable`1[[System.Boolean, System.Private.CoreLib, Version=4.0.0.0, Culture=neutral, PublicKeyToken=7cec85d7bea7798e]]

System.Nullable`1[[System.Int32, System.Private.CoreLib, Version=4.0.0.0, Culture=neutral, PublicKeyToken=7cec85d7bea7798e]]

System.String[]

OUTPUTS

Microsoft.Azure.Commands.RedisCache.Models.RedisCacheAttributesWithAccessKeys

NOTES

---------- Example 1: Create a Redis Cache ----------

New-AzRedisCache -ResourceGroupName "MyGroup" -Name "MyCache" -Location "North Central US"

PrimaryKey : pJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

SecondaryKey : sJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

ResourceGroupName : MyGroup

Id :
/subscriptions/a559b6fd-3a84-40bb-a450-b0db5ed37dfe/resourceGroups/mygroup/providers/Microsoft.Cache/Redis/mycache

Location : North Central US

Name : MyCache

Type : Microsoft.Cache/Redis

HostName : mycache.redis.cache.windows.net

Port : 6379

ProvisioningState : creating

SslPort : 6380

RedisConfiguration : {}

EnableNonSslPort : False

RedisVersion : 2.8

Size : 1GB

Sku : Standard

Tag : {}

Zone : []

This command creates a Redis Cache.

--------- Example 2: Create a Standard SKU Redis Cache ---------

New-AzRedisCache -ResourceGroupName "MyGroup" -Name "MyCache" -Location "North Central US" -Size 250MB -Sku "Standard" -RedisConfiguration @{"maxmemory-policy" =
"allkeys-random"}

PrimaryKey : pJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

SecondaryKey : sJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

ResourceGroupName : MyGroup

Id :
/subscriptions/a559b6fd-3a84-40bb-a450-b0db5ed37dfe/resourceGroups/mygroup/providers/Microsoft.Cache/Redis/MyCache

Location : North Central US

Name : mycache

Type : Microsoft.Cache/Redis

HostName : mycache.redis.cache.windows.net

Port : 6379

ProvisioningState : creating

SslPort : 6380

RedisConfiguration : {[maxmemory-policy, allkeys-random]}

EnableNonSslPort : False

RedisVersion : 2.8

Size : 250MB

Sku : Standard

Tag : {}

Zone : []

This cmdlet creates a cache using Azure Cache for Redis.

---------- Example 3: Create a Zone Redundant Cache ----------

New-AzRedisCache -ResourceGroupName "MyGroup" -Name "MyCache" -Location "Central US" -Size P1 -Sku "Premium" -Zone @("1","2")

PrimaryKey : pJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

SecondaryKey : sJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

ResourceGroupName : MyGroup

Id :
/subscriptions/a559b6fd-3a84-40bb-a450-b0db5ed37dfe/resourceGroups/mygroup/providers/Microsoft.Cache/Redis/MyCache

Location : Central US

Name : mycache

Type : Microsoft.Cache/Redis

HostName : mycache.redis.cache.windows.net

Port : 6379

ProvisioningState : creating

SslPort : 6380

RedisConfiguration : {[maxmemory-policy, allkeys-random], [maxclients, 7500], [maxmemory-reserved, 200],
[maxfragmentationmemory-reserved, 300]...}

EnableNonSslPort : False

RedisVersion : 4.0.14

Size : 6GB

Sku : Premium

Tag : {}

Zone : {1, 2}

This command creates Azure cache for Redis instance in mutliple zones.

------- Example 4: Create a Virtual Network enable Cache -------

New-AzRedisCache -ResourceGroupName "MyGroup" -Name "MyCache" -Location "Central US" -Size P1 -Sku "Premium" -SubnetId

"/subscriptions/a559b6fd-3a84-40bb-a450-b0db5ed37dfe/resourceGroups/mygroup/providers/Microsoft.Network/virtualNetworks/MyNet/subnets/MySubnet"

PrimaryKey : pJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

SecondaryKey : sJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

ResourceGroupName : MyGroup

Id :

/subscriptions/a559b6fd-3a84-40bb-a450-b0db5ed37dfe/resourceGroups/mygroup/providers/Microsoft.Cache/Redis/MyCache

```
Location          : Central US
Name              : mycache
Type              : Microsoft.Cache/Redis
HostName          : mycache.redis.cache.windows.net
Port              : 6379
ProvisioningState  : creating
SslPort           : 6380
RedisConfiguration : {[maxmemory-policy, allkeys-random], [maxclients, 7500], [maxmemory-reserved, 200],
                     [maxfragmentationmemory-reserved, 300]...}
EnableNonSslPort   : False
RedisVersion      : 4.0.14
Size              : 6GB
Sku               : Premium
SubnetId          :

/subscriptions/a559b6fd-3a84-40bb-a450-b0db5ed37dfe/resourceGroups/mygroup/providers/Microsoft.Network/virtualNetworks/MyNet/subnets/MySubnet
StaticIP          : 10.0.0.4
Tag               : {}
Zone              : []
```

Example 5: Configure data persistence for a Premium Azure Cache for Redis

```
New-AzRedisCache -ResourceGroupName "MyGroup" -Name "MyCache" -Location "Central US" -Size P1 -Sku "Premium" -RedisConfiguration @{"rdb-backup-enabled" = "true";
"rdb-storage-connection-string" =

"DefaultEndpointsProtocol=https;AccountName=mystorageaccount;AccountKey=pJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=;EndpointSuffix=mySuffix"; "rdb-backup-frequency"
= "30"}
```

PrimaryKey : pJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

SecondaryKey : sJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

ResourceGroupName : MyGroup

Id :
/subscriptions/a559b6fd-3a84-40bb-a450-b0db5ed37dfe/resourceGroups/mygroup/providers/Microsoft.Cache/Redis/MyCache

Location : Central US

Name : mycache

Type : Microsoft.Cache/Redis

HostName : mycache.redis.cache.windows.net

Port : 6379

ProvisioningState : creating

SslPort : 6380

RedisConfiguration : {[maxmemory-policy, allkeys-random], [maxclients, 7500], [maxmemory-reserved, 200],
[maxfragmentationmemory-reserved, 300], [rdb-backup-enabled, true]....}

EnableNonSslPort : False

RedisVersion : 4.0.14

Size : 6GB

Sku : Premium

Tag : {}

Zone : []

Example 6: Configure data persistence for a Premium Azure Cache for Redis - AOF backup enabled

New-AzRedisCache -ResourceGroupName "MyGroup" -Name "MyCache" -Location "Central US" -Size P1 -Sku "Premium" -RedisConfiguration @{"aof-backup-enabled" = "true";

"aof-storage-connection-string-0" =

"DefaultEndpointsProtocol=https;AccountName=mystorageaccount;AccountKey=pJ+jruGKPHDKsEC8kmoybobH3TZx2njB

R3ipEsquZFo=;EndpointSuffix=mySuffix"}

PrimaryKey : pJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

SecondaryKey : sJ+jruGKPHDKsEC8kmoybobH3TZx2njBR3ipEsquZFo=

ResourceGroupName : MyGroup

Id :

/subscriptions/a559b6fd-3a84-40bb-a450-b0db5ed37dfe/resourceGroups/mygroup/providers/Microsoft.Cache/Redis/MyCac

he

Location : Central US

Name : mycache

Type : Microsoft.Cache/Redis

HostName : mycache.redis.cache.windows.net

Port : 6379

ProvisioningState : creating

SslPort : 6380

RedisConfiguration : {[maxmemory-policy, allkeys-random], [maxclients, 7500], [maxmemory-reserved, 200],

[maxfragmentationmemory-reserved, 300], [aof-backup-enabled, true]...}

EnableNonSslPort : False

RedisVersion : 4.0.14

Size : 6GB

Sku : Premium

Tag : {}

Zone : []

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/az.rediscache/new-azrediscache

Get-AzRedisCache

Remove-AzRedisCache

Set-AzRedisCache